

69001 – 558.4 grams

Drive Tube
CSVC

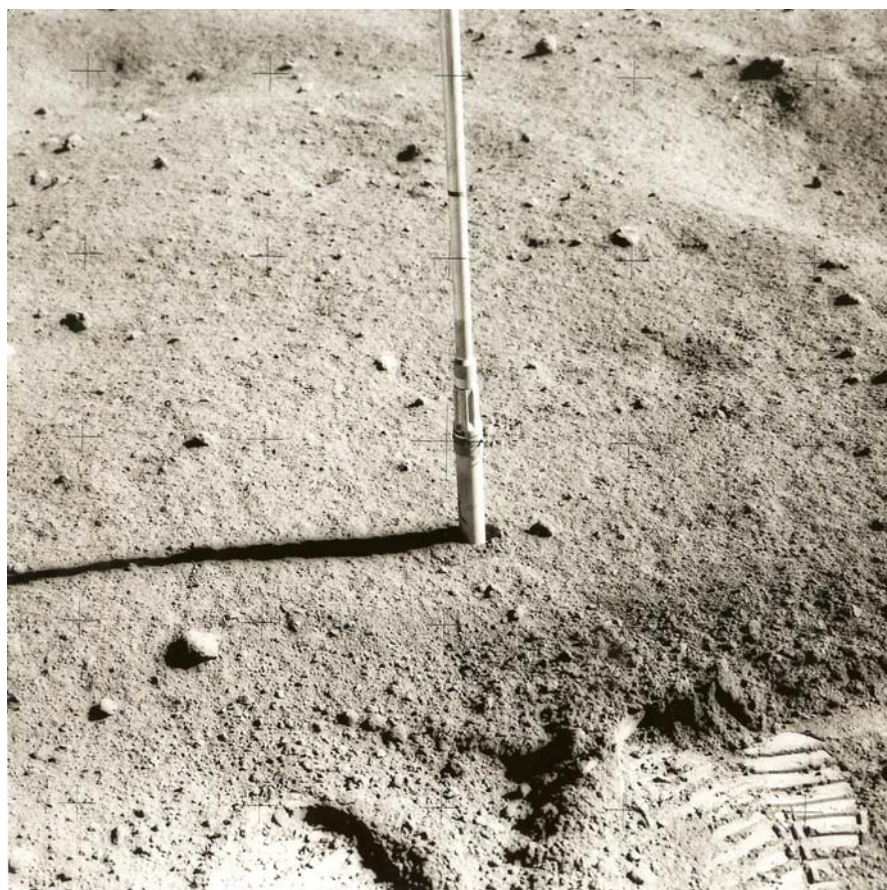


Figure 1: Surface photo of drive tube 69001. AS16-108-17742.

Introduction

69001 is unopened and has been in vacuum since it was sealed in CSVC on the moon. It was collected about 10 meters from small boulder 69935, 69955 – see transcript.

According to the soil mechanics report (Mitchell et al. 1972), 69001 was pushed in 20 cm and driven about another 7 cm by eight hammer blows.

Petrography

Surface soil for comparison is the soil collected beneath the small station 9 boulder (69960).

Chemistry

No data

Transcript

CC We'd like to get that CSVC.
LMP Okay, Tony. We can turn this rock over - -
CC John, you lost the bag?
CDR Yeah, lost my whole set of bags. O shoot.
LMP May I borrow your hammer John? This core, I think might be able to push it in, but – Okay, we'll just do it right here. Tony, I'm 15 meters out to the left of the –
CC Rodger. We're watching you, Charlie.
Okay. There we go. Pushed it in halfway, Tony.
CC Okay. And remember not to hammer this one all the way in.
- -
LMP Okay. Tony, that's about 7 centimeters out.
CC Looks good to us.
LMP Feels good to me too, to get that over.

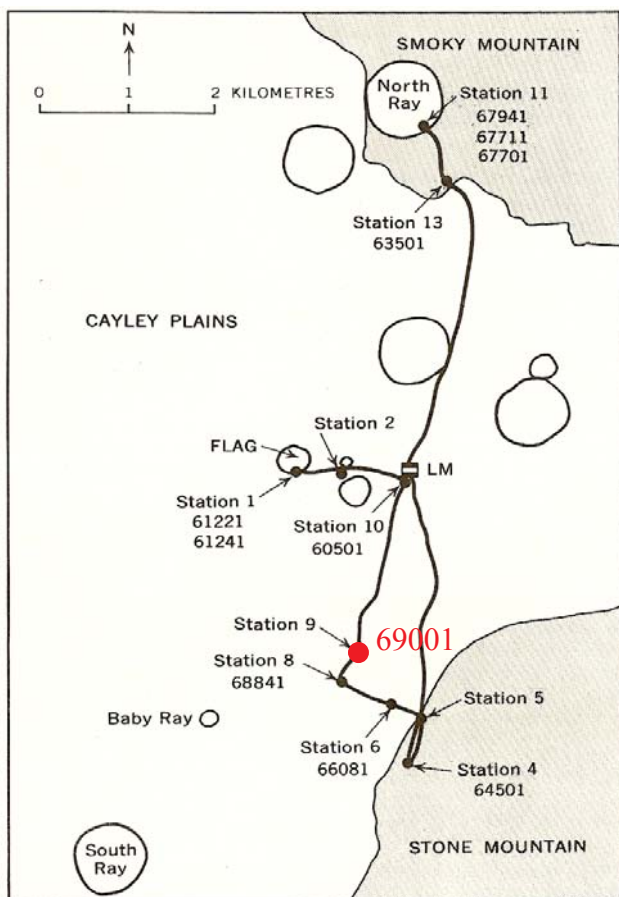


Figure 2: Map of Apollo 16 site.

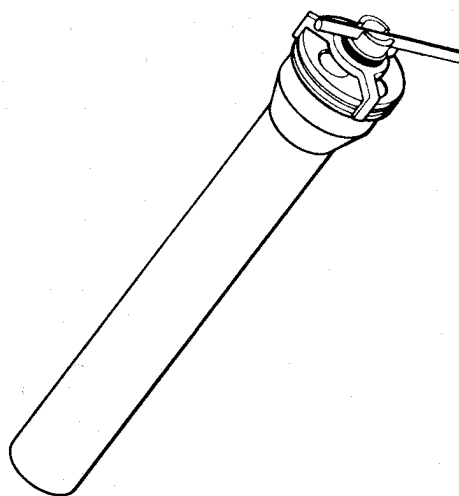


Figure 3: Special vacuum container (CSVC) used to hold short lunar drive tube (core). It has the same type of In seal used with the SESC (Allton 1989).

References

- Allton J.H. (1989) Catalog of Apollo lunar surface geologic sampling tools and containers. JSC-23454 pp97 Curator's Office. JSC.
- Butler P. (1972a) Lunar Sample Information Catalog Apollo 16. Lunar Receiving Laboratory. MSC 03210 Curator's Catalog. pp. 370.
- Duke M.B. and Nagle J.S. (1976) Lunar Core Catalog. JSC09252 rev. Curators' Office
- Mitchell J.K., Carrier W.D., Houston W.N., Scott R.F., Bromwell L.G., Durgunoglu H.T., Hovland H.J., Treadwell D.D. and Costes N.C. (1973) 8. Soil-Mechanics. *In* Apollo 16 Preliminary Science Rpt. NASA SP-315. pages 8-1-29.
- Muehlberger W.R. and many others (1973) Preliminary Geological Investigation of the Apollo 17 Landing Site. *In* Apollo 17 Preliminary Science Report. NASA SP-330.